

In the Claims

1. (Currently amended) A photosensitive resin printing plate material comprising a support provided thereon at least a photosensitive resin layer and an optical density changing layer comprising a composition containing a metal oxide or a composition containing a heat-decomposable compound and a light-to-heat converting substance, wherein the composition evaporates or discolors, and the optical density changing layer yields an optical density of 2.0 or higher before irradiating a laser radiation thereto, and 0.5 or lower after laser is irradiated thereto, further having a peelable thermoplastic film layer interposed between the photosensitive resin layer and the optical density changing layer.

2. (Original) A photosensitive resin printing plate material as claimed in Claim 1, wherein the film layer has a thickness in a range of 1 to 30 μm .

3. (Cancelled)

4. (Previously Presented) A photosensitive resin printing plate material as claimed in Claim 1, wherein the photosensitive resin layer is provided at a thickness in a range of from 0.1 to 10 mm, and is a layer photocurable by a light having a wavelength in a range of from 300 to 400 nm.

5. (Previously Presented) A photosensitive resin printing plate material as claimed in Claim 1, wherein a film stripping layer is incorporated between the photosensitive resin layer and the film layer.

6. (Currently Amended) A method for producing a photosensitive resin printing plate, comprising at least the following steps in this order,

a step of forming an image on an optical density changing layer which comprises a composition containing a metal oxide or a composition containing a heat-decomposable compound and a light-to-heat converting substance positioned adjacent a peelable thermoplastic layer that is positioned adjacent a photosensitive resin layer, wherein the composition evaporates or discolors, and the optical density changing layer yields an optical density of 2.0 or higher before irradiating a laser radiation thereto, and 0.5 or lower after laser is irradiated thereto,

a step of forming a latent image by exposure of the photosensitive resin layer through the image,

a step of peeling off the thermoplastic film layer and the optical density changing layer from the photosensitive resin layer, and

a step of developing the photosensitive resin layer.

7. (Previously Presented) A photosensitive resin printing plate material as claimed in Claim 2, wherein the photosensitive resin layer is provided at a thickness in a range of from 0.1 to 10 mm, and is a layer photocurable by a light having a wavelength in a range of from 300 to 400 nm.

8. (Previously Presented) A method for producing a photosensitive resin printing plate from the photosensitive resin printing plate material of Claim 2, comprising at least the following steps in this order,

a step of forming an image on an optical density changing layer,

a step of forming a latent image by exposure of the photosensitive resin layer through the image,

a step of peeling off the film layer and the optical density changing layer from the photosensitive resin layer, and

a step of developing the photosensitive resin layer.

9. (Previously Presented) A method for producing a photosensitive resin printing plate from the photosensitive resin printing plate material of Claim 4, comprising at least the following steps in this order,

a step of forming an image on an optical density changing layer,

a step of forming a latent image by exposure of the photosensitive resin layer through the image,

a step of peeling off the film layer and the optical density changing layer from the photosensitive resin layer, and

a step of developing the photosensitive resin layer.

10. (New) The photosensitive resin printing plate material as claimed in Claim 1, wherein the thermoplastic film layer is formed from polyethylene, polypropylene, polyethylene terephthalate or polybutylene terephthalate.

11. (New) The method for producing a photosensitive resin printing plate as claimed in Claim 6, wherein the thermoplastic film layer is formed from polyethylene, polypropylene, polyethylene terephthalate or polybutylene terephthalate.